

Spool File For Oracle Students Trained by Mr.Sathish Yellanki

SQL> cl scr

SQL> COLUMN Deptno FORMAT 99

SQL> SELECT

```
2  GROUPING(Deptno) GRPDeptIDX,  
3  Deptno,  
4  SUM(Sal)  
5  FROM Emp  
6  GROUP BY ROLLUP (Deptno);
```

GRPDEPTIDX	DEPTNO	SUM(SAL)
0	10	8750
0	20	10875
0	30	9400
1		29025

SQL> SELECT

```
2  GROUPING(Job) GRPJobIDX,  
3  Job,  
4  SUM(Sal)  
5  FROM Emp  
6  GROUP BY ROLLUP (Job);
```

GRPJOBIDX	JOB	SUM(SAL)
0	ANALYST	6000
0	CLERK	4150
0	MANAGER	8275
0	PRESIDENT	5000
0	SALESMAN	5600
1		29025

6 rows selected.

SQL> ED

Wrote file afledt.buf

```
1  SELECT  
2  GROUPING(Deptno) GRPDeptnoIDX,  
3  Deptno,  
4  GROUPING(Job) GRPJobIDX,  
5  Job,  
6  SUM(Sal)  
7  FROM Emp  
8* GROUP BY ROLLUP (Deptno, Job)
```

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SQL> /

GRPDEPTNOIDX	DEPTNO	GRPJOBIDX	JOB	SUM(SAL)
0	10	0	CLERK	1300
0	10	0	MANAGER	2450
0	10	0	PRESIDENT	5000
0	10	1		8750
0	20	0	CLERK	1900
0	20	0	ANALYST	6000
0	20	0	MANAGER	2975
0	20	1		10875
0	30	0	CLERK	950
0	30	0	MANAGER	2850
0	30	0	SALESMAN	5600
0	30	1		9400
1		1		29025

13 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1  SELECT
2  GROUPING(Deptno) GRPDeptnoIDX,
3  Deptno,
4  GROUPING(Job) GRPJobIDX,
5  Job,
6  SUM(Sal)
7  FROM Emp
8  GROUP BY CUBE(Deptno, Job)
9* ORDER BY Deptno
```

SQL> /

GRPDEPTNOIDX	DEPTNO	GRPJOBIDX	JOB	SUM(SAL)
0	10	0	CLERK	1300
0	10	0	MANAGER	2450
0	10	0	PRESIDENT	5000
0	10	1		8750
0	20	0	ANALYST	6000
0	20	0	CLERK	1900
0	20	0	MANAGER	2975
0	20	1		10875
0	30	0	CLERK	950
0	30	0	MANAGER	2850

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```
.....
      0      30      0 SALESMAN      5600
      0      30      1      9400
      1      30      0 ANALYST      6000
      1      30      0 CLERK      4150
      1      30      0 MANAGER      8275
      1      30      0 PRESIDENT      5000
      1      30      0 SALESMAN      5600

GRPDEPTNOIDX DEPTNO  GRPJOBIDX JOB          SUM(SAL)
-----
          1          1          29025
```

18 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1  SELECT
2  Deptno,
3  Job,
4  SUM(Sal)
5  FROM Emp
6  GROUP BY CUBE(Deptno, Job)
7  HAVING GROUPING(&GiveDim) &GiveIndex
8* ORDER BY Deptno
```

SQL> /

Enter value for givedim: Deptno

Enter value for giveindex: 0

HAVING GROUPING(Deptno) 0

ERROR at line 7:

ORA-00920: invalid relational operator

SQL> /

Enter value for givedim: Deptno

Enter value for giveindex: = 0

```
DEPTNO JOB          SUM(SAL)
-----
10 CLERK            1300
10 MANAGER          2450
10 PRESIDENT        5000
10                  8750
20 ANALYST           6000
20 CLERK            1900
```

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```
20 MANAGER          2975
20                   10875
30 CLERK             950
30 MANAGER           2850
30 SALESMAN           5600
30                   9400
```

12 rows selected.

```
SQL> SELECT Deptno, Job, SUM(Sal)
2   FROM Emp
3   GROUP BY Deptno, ROLLUP(Job);
```

DEPTNO	JOB	SUM(SAL)
10	CLERK	1300
10	MANAGER	2450
10	PRESIDENT	5000
10		8750
20	CLERK	1900
20	ANALYST	6000
20	MANAGER	2975
20		10875
30	CLERK	950
30	MANAGER	2850
30	SALESMAN	5600
30		9400

12 rows selected.

```
SQL> cl scr
```

```
SQL> SELECT
2   Deptno,
3   Job,
4   SUM(Sal)
5   FROM Emp
6   GROUP BY CUBE(Deptno, Job)
7   HAVING GROUPING(&GiveDim) &GiveIndex
8   ORDER BY Deptno;
```

Enter value for givedim: Job

Enter value for giveindex: = 0

DEPTNO	JOB	SUM(SAL)
10	CLERK	1300

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10	MANAGER	2450
10	PRESIDENT	5000
20	CLERK	1900
20	ANALYST	6000
20	MANAGER	2975
30	MANAGER	2850
30	CLERK	950
30	SALESMAN	5600
	MANAGER	8275
	SALESMAN	5600
	CLERK	4150
	ANALYST	6000
	PRESIDENT	5000

14 rows selected.

SQL> /

Enter value for giveidim: Job

Enter value for giveindex: = 0 AND Deptno IS NOT NULL

DEPTNO	JOB	SUM(SAL)
10	CLERK	1300
10	MANAGER	2450
10	PRESIDENT	5000
20	ANALYST	6000
20	CLERK	1900
20	MANAGER	2975
30	CLERK	950
30	MANAGER	2850
30	SALESMAN	5600

9 rows selected.

SQL> /

Enter value for giveidim: Job

Enter value for giveindex: = 0 AND Deptno IS NULL

DEPTNO	JOB	SUM(SAL)
	CLERK	4150
	ANALYST	6000
	PRESIDENT	5000
	SALESMAN	5600
	MANAGER	8275

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```
SQL> /
Enter value for givedim: Deptno
Enter value for giveindex: = 1
```

DEPTNO	JOB	SUM(SAL)
	ANALYST	6000
	CLERK	4150
	MANAGER	8275
	PRESIDENT	5000
	SALESMAN	5600
		29025

6 rows selected.

```
SQL> /
Enter value for givedim: Deptno
Enter value for giveindex: IN(0, 1)
```

DEPTNO	JOB	SUM(SAL)
10	CLERK	1300
10	MANAGER	2450
10	PRESIDENT	5000
10		8750
20	ANALYST	6000
20	CLERK	1900
20	MANAGER	2975
20		10875
30	CLERK	950
30	MANAGER	2850
30	SALESMAN	5600
30		9400
	ANALYST	6000
	CLERK	4150
	MANAGER	8275
	PRESIDENT	5000
	SALESMAN	5600

DEPTNO	JOB	SUM(SAL)
		29025

18 rows selected.

```
SQL> /
```

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Enter value for givedim: Deptno

Enter value for giveindex: IN(1, 0) AND Deptno IS NOT NULL

DEPTNO	JOB	SUM(SAL)
10	CLERK	1300
10	MANAGER	2450
10	PRESIDENT	5000
10		8750
20	ANALYST	6000
20	CLERK	1900
20	MANAGER	2975
20		10875
30	CLERK	950
30	MANAGER	2850
30	SALESMAN	5600
30		9400

12 rows selected.

SQL> cl scr

SQL> SELECT Ename, Job, Deptno
2 FROM Emp;

ENAME	JOB	DEPTNO
KING	PRESIDENT	10
BLAKE	MANAGER	30
CLARK	MANAGER	10
JONES	MANAGER	20
MARTIN	SALESMAN	30
ALLEN	SALESMAN	30
TURNER	SALESMAN	30
JAMES	CLERK	30
WARD	SALESMAN	30
FORD	ANALYST	20
SMITH	CLERK	20
SCOTT	ANALYST	20
ADAMS	CLERK	20
MILLER	CLERK	10

14 rows selected.

SQL> SELECT Deptno, Dname
2 FROM Dept;

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DEPTNO DNAME

10 ACCOUNTING
20 RESEARCH
30 SALES
40 OPERATIONS

```
SQL> SELECT
  2  Ename,
  3  Job,
  4  Sal,
  5  Deptno,
  6  DECODE
  7  (
  8  Deptno,
  9  10, 'ACCOUNTING',
10  20, 'RESEARCH',
11  30, 'SALES',
12  40, 'OPERATIONS',
13  'OTHER'
14  ) Departments
15  FROM Emp
16  ORDER BY Departments;
```

ENAME	JOB	SAL	DEPTNO	DEPARTMENT
KING	PRESIDENT	5000	10	ACCOUNTING
CLARK	MANAGER	2450	10	ACCOUNTING
MILLER	CLERK	1300	10	ACCOUNTING
ADAMS	CLERK	1100	20	RESEARCH
SCOTT	ANALYST	3000	20	RESEARCH
SMITH	CLERK	800	20	RESEARCH
FORD	ANALYST	3000	20	RESEARCH
JONES	MANAGER	2975	20	RESEARCH
WARD	SALESMAN	1250	30	SALES
JAMES	CLERK	950	30	SALES
ALLEN	SALESMAN	1600	30	SALES
MARTIN	SALESMAN	1250	30	SALES
BLAKE	MANAGER	2850	30	SALES
TURNER	SALESMAN	1500	30	SALES

14 rows selected.

```
SQL> SELECT Ename, Job, Sal, Dept.Deptno, Dname
  2  FROM Emp, Dept
```

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3 WHERE Emp.Deptno = Dept.Deptno;

ENAME	JOB	SAL	DEPTNO	DNAME
KING	PRESIDENT	5000	10	ACCOUNTING
BLAKE	MANAGER	2850	30	SALES
CLARK	MANAGER	2450	10	ACCOUNTING
JONES	MANAGER	2975	20	RESEARCH
MARTIN	SALESMAN	1250	30	SALES
ALLEN	SALESMAN	1600	30	SALES
TURNER	SALESMAN	1500	30	SALES
JAMES	CLERK	950	30	SALES
WARD	SALESMAN	1250	30	SALES
FORD	ANALYST	3000	20	RESEARCH
SMITH	CLERK	800	20	RESEARCH
SCOTT	ANALYST	3000	20	RESEARCH
ADAMS	CLERK	1100	20	RESEARCH
MILLER	CLERK	1300	10	ACCOUNTING

14 rows selected.

SQL> SET AUTOTRACE ON EXPLAIN

SQL> SELECT Ename, Job, Sal, Dept.Deptno, Dname

2 FROM Emp, Dept

3 WHERE Emp.Deptno = Dept.Deptno;

ENAME	JOB	SAL	DEPTNO	DNAME
KING	PRESIDENT	5000	10	ACCOUNTING
BLAKE	MANAGER	2850	30	SALES
CLARK	MANAGER	2450	10	ACCOUNTING
JONES	MANAGER	2975	20	RESEARCH
MARTIN	SALESMAN	1250	30	SALES
ALLEN	SALESMAN	1600	30	SALES
TURNER	SALESMAN	1500	30	SALES
JAMES	CLERK	950	30	SALES
WARD	SALESMAN	1250	30	SALES
FORD	ANALYST	3000	20	RESEARCH
SMITH	CLERK	800	20	RESEARCH
SCOTT	ANALYST	3000	20	RESEARCH
ADAMS	CLERK	1100	20	RESEARCH
MILLER	CLERK	1300	10	ACCOUNTING

14 rows selected.

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Execution Plan

Plan hash value: 615168685

```
--
| Id | Operation | Name | Rows | Bytes | Cost (%CPU) | Time |
|-----|-----|-----|-----|-----|-----|-----|
| 0 | SELECT STATEMENT | | 14 | 854 | 7 (15) | 00:00:01 |
|* 1 | HASH JOIN | | 14 | 854 | 7 (15) | 00:00:01 |
| 2 | TABLE ACCESS FULL | DEPT | 4 | 88 | 3 (0) | 00:00:01 |
| 3 | TABLE ACCESS FULL | EMP | 14 | 546 | 3 (0) | 00:00:01 |
--
```

Predicate Information (identified by operation id):

```
1 - access("EMP"."DEPTNO"="DEPT"."DEPTNO")
```

Note

```
- dynamic sampling used for this statement
```

```
SQL> SELECT
2  Ename,
3  Job,
4  Sal,
5  Deptno,
6  DECODE
7  (
8  Deptno,
9  10, 'ACCOUNTING',
10  20, 'RESEARCH',
11  30, 'SALES',
12  40, 'OPERATIONS',
13  'OTHER'
14  ) Departments
15 FROM Emp
16 ORDER BY Departments;
```

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ENAME	JOB	SAL	DEPTNO	DEPARTMENT
KING	PRESIDENT	5000	10	ACCOUNTING
CLARK	MANAGER	2450	10	ACCOUNTING
MILLER	CLERK	1300	10	ACCOUNTING
ADAMS	CLERK	1100	20	RESEARCH
SCOTT	ANALYST	3000	20	RESEARCH
SMITH	CLERK	800	20	RESEARCH
FORD	ANALYST	3000	20	RESEARCH
JONES	MANAGER	2975	20	RESEARCH
WARD	SALESMAN	1250	30	SALES
JAMES	CLERK	950	30	SALES
ALLEN	SALESMAN	1600	30	SALES
MARTIN	SALESMAN	1250	30	SALES
BLAKE	MANAGER	2850	30	SALES
TURNER	SALESMAN	1500	30	SALES

14 rows selected.

Execution Plan

Plan hash value: 150391907

Id	Operation	Name	Rows	Bytes	Cost (%CPU)	Time
0	SELECT STATEMENT		14	546	4 (25)	00:00:01
1	SORT ORDER BY		14	546	4 (25)	00:00:01
2	TABLE ACCESS FULL	EMP	14	546	3 (0)	00:00:01

Note

dynamic sampling used for this statement

SQL> SET AUTOTRACE OFF EXPLAIN

SQL> cl scr

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```
SQL> SELECT
  2  INITCAP(Ename)||' Takes Care of '||
  3  DECODE
  4  (
  5   Job,
  6   'ANALYST', 'Analysis',
  7   'CLERK', 'Filing',
  8   'MANAGER', 'Managing',
  9   'PRESIDENT', 'Administration',
 10   'SALESMAN', 'Sales'
 11  ) Responsibilities
 12  FROM Emp;
```

RESPONSIBILITIES

```
King Takes Care of Administration
Blake Takes Care of Managing
Clark Takes Care of Managing
Jones Takes Care of Managing
Martin Takes Care of Sales
Allen Takes Care of Sales
Turner Takes Care of Sales
James Takes Care of Filing
Ward Takes Care of Sales
Ford Takes Care of Analysis
Smith Takes Care of Filing
Scott Takes Care of Analysis
Adams Takes Care of Filing
Miller Takes Care of Filing
```

14 rows selected.

```
SQL> cl scr
```

```
SQL> COL Grades FORMAT A6
```

```
SQL> SELECT
  2  Ename,
  3  Job,
  4  DECODE
  5  (
  6   Job,
  7   'CLERK', 'E',
  8   'SALESMAN', 'D',
  9   'ANALYST', 'C',
 10   'MANAGER', 'B',
```

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```
11  'PRESIDENT', 'A',
12  'O'
13  ) Grades
14  FROM Emp
15  ORDER BY Job;
```

ENAME	JOB	GRADES
FORD	ANALYST	C
SCOTT	ANALYST	C
SMITH	CLERK	E
MILLER	CLERK	E
JAMES	CLERK	E
ADAMS	CLERK	E
JONES	MANAGER	B
CLARK	MANAGER	B
BLAKE	MANAGER	B
KING	PRESIDENT	A
WARD	SALESMAN	D
ALLEN	SALESMAN	D
MARTIN	SALESMAN	D
TURNER	SALESMAN	D

14 rows selected.

SQL> cl scr

```
SQL> SELECT
  2  Ename,
  3  Job,
  4  DECODE
  5  (
  6  Job,
  7  'CLERK', 'E',
  8  'SALESMAN', 'D',
  9  'ANALYST', 'C',
  10 'MANAGER', 'B',
  11 'PRESIDENT', 'A',
  12 'O'
  13 ) Grades,
  14 Deptno,
  15 DECODE
  16 (
  17 Deptno,
  18 10, 'ACCOUNTING',
  19 20, 'RESEARCH',
```

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```
20 30, 'SALES',
21 40, 'OPERATIONS',
22 'OTHER'
23 ) Departments,
24 Sal,
25 Grade
26 FROM Emp E, Salgrade S
27 WHERE Sal BETWEEN LoSal AND HiSal
28 ORDER BY JOB;
```

ENAME	JOB	GRADES	DEPTNO	DEPARTMENT	SAL	GRADE
SCOTT	ANALYST	C	20	RESEARCH	3000	4
FORD	ANALYST	C	20	RESEARCH	3000	4
JAMES	CLERK	E	30	SALES	950	1
ADAMS	CLERK	E	20	RESEARCH	1100	1
MILLER	CLERK	E	10	ACCOUNTING	1300	2
SMITH	CLERK	E	20	RESEARCH	800	1
CLARK	MANAGER	B	10	ACCOUNTING	2450	4
BLAKE	MANAGER	B	30	SALES	2850	4
JONES	MANAGER	B	20	RESEARCH	2975	4
KING	PRESIDENT	A	10	ACCOUNTING	5000	5
ALLEN	SALESMAN	D	30	SALES	1600	3
MARTIN	SALESMAN	D	30	SALES	1250	2
WARD	SALESMAN	D	30	SALES	1250	2
TURNER	SALESMAN	D	30	SALES	1500	3

14 rows selected.

```
SQL> SET AUTOTRACE ON EXPLAIN
```

```
SQL> R
```

```
1  SELECT
2  Ename,
3  Job,
4  DECODE
5  (
6  Job,
7  'CLERK', 'E',
8  'SALESMAN', 'D',
9  'ANALYST', 'C',
10 'MANAGER', 'B',
11 'PRESIDENT', 'A',
12 'O'
13 ) Grades,
14 Deptno,
15 DECODE
```

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Spool File For Oracle Students Trained by Mr.Sathish Yellanki

```
16  (
17  Deptno,
18  10, 'ACCOUNTING',
19  20, 'RESEARCH',
20  30, 'SALES',
21  40, 'OPERATIONS',
22  'OTHER'
23  ) Departments,
24  Sal,
25  Grade
26  FROM Emp E, Salgrade S
27  WHERE Sal BETWEEN LoSal AND HiSal
28* ORDER BY JOB
```

ENAME	JOB	GRADES	DEPTNO	DEPARTMENT	SAL	GRADE
SCOTT	ANALYST	C	20	RESEARCH	3000	4
FORD	ANALYST	C	20	RESEARCH	3000	4
JAMES	CLERK	E	30	SALES	950	1
ADAMS	CLERK	E	20	RESEARCH	1100	1
MILLER	CLERK	E	10	ACCOUNTING	1300	2
SMITH	CLERK	E	20	RESEARCH	800	1
CLARK	MANAGER	B	10	ACCOUNTING	2450	4
BLAKE	MANAGER	B	30	SALES	2850	4
JONES	MANAGER	B	20	RESEARCH	2975	4
KING	PRESIDENT	A	10	ACCOUNTING	5000	5
ALLEN	SALESMAN	D	30	SALES	1600	3
MARTIN	SALESMAN	D	30	SALES	1250	2
WARD	SALESMAN	D	30	SALES	1250	2
TURNER	SALESMAN	D	30	SALES	1500	3

14 rows selected.

Execution Plan

Plan hash value: 1546021526

Id	Operation	Name	Rows	Bytes	Cost (%CPU)
0	SELECT STATEMENT		1	78	9 (34)

00:00:01 |

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```
-----
|  1 |  SORT ORDER BY          |          |  1 |  78 |  9 (34) |
00:00:01 |
|  2 |  MERGE JOIN              |          |  1 |  78 |  8 (25) |
00:00:01 |
|  3 |  SORT JOIN               |          |  5 | 195 |  4 (25) |
00:00:01 |
|  4 |  TABLE ACCESS FULL      | SALGRADE |  5 | 195 |  3 (0)  |
00:00:01 |
| * 5 |  FILTER                  |          |    |    |    |
|
| * 6 |  SORT JOIN               |          | 14 | 546 |  4 (25) |
00:00:01 |
|  7 |  TABLE ACCESS FULL      | EMP      | 14 | 546 |  3 (0)  |
00:00:01 |
-----
```

Predicate Information (identified by operation id):

```
-----
5 - filter("SAL"<="HISAL")
6 - access("SAL">="LOSAL")
   filter("SAL">="LOSAL")
```

Note

- dynamic sampling used for this statement

SQL> ED

Wrote file afiedt.buf

```
1  SELECT
2  Ename,
3  Job,
4  DECODE
5  (
6  Job,
7  'CLERK', 'E',
8  'SALESMAN', 'D',
9  'ANALYST', 'C',
10 'MANAGER', 'B',
11 'PRESIDENT', 'A',
12 'O'
13 ) Grades,
14 D.Deptno,
15 Dname,
```

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```
16 Sal,
17 Grade
18 FROM Emp E, Salgrade S, Dept D
19 WHERE D.Deptno = E.Deptno AND Sal BETWEEN LoSal AND HiSal
20* ORDER BY JOB
SQL> /
```

ENAME	JOB	GRADES	DEPTNO	DNAME	SAL	GRADE
SCOTT	ANALYST	C	20	RESEARCH	3000	4
FORD	ANALYST	C	20	RESEARCH	3000	4
JAMES	CLERK	E	30	SALES	950	1
ADAMS	CLERK	E	20	RESEARCH	1100	1
MILLER	CLERK	E	10	ACCOUNTING	1300	2
SMITH	CLERK	E	20	RESEARCH	800	1
CLARK	MANAGER	B	10	ACCOUNTING	2450	4
BLAKE	MANAGER	B	30	SALES	2850	4
JONES	MANAGER	B	20	RESEARCH	2975	4
KING	PRESIDENT	A	10	ACCOUNTING	5000	5
ALLEN	SALESMAN	D	30	SALES	1600	3
MARTIN	SALESMAN	D	30	SALES	1250	2
WARD	SALESMAN	D	30	SALES	1250	2
TURNER	SALESMAN	D	30	SALES	1500	3

14 rows selected.

Execution Plan

Plan hash value: 3221578851

Id	Operation	Name	Rows	Bytes
Cost (%CPU)	Time			
0	SELECT STATEMENT		1	100
10 (30)				
1	SORT ORDER BY		1	100
10 (30)				
2	NESTED LOOPS		1	100
9 (23)				
3	MERGE JOIN		1	78
8 (25)				

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```
-----
|  4 |      SORT JOIN                      |          |  5 |  195
|  4 | (25) | 00:00:01 |                      |          |
|  5 |      TABLE ACCESS FULL              | SALGRADE |  5 |  195
|  3 | (0) | 00:00:01 |                      |          | |
| * 6 |      FILTER                          |          |   |   |
|   |      |                                |          |   |   |
| * 7 |      SORT JOIN                      |          | 14 | 546
|  4 | (25) | 00:00:01 |                      |          |
|  8 |      TABLE ACCESS FULL              | EMP      | 14 | 546
|  3 | (0) | 00:00:01 |                      |          |
|  9 |      TABLE ACCESS BY INDEX ROWID   | DEPT     |  1 |  22
|  1 | (0) | 00:00:01 |                      |          |
| *10 |      INDEX UNIQUE SCAN                | DEPT_PRIMARY_KEY |  1 |
|  0 | (0) | 00:00:01 |                      |          |
-----
```

Predicate Information (identified by operation id):

```
-----
6 - filter("SAL"<="HISAL")
7 - access("SAL">="LOSAL")
   filter("SAL">="LOSAL")
10 - access("D"."DEPTNO"="E"."DEPTNO")
```

Note

- dynamic sampling used for this statement

SQL> cl scr

```
SQL> SELECT Ename, Job,
2  DECODE
3  (
4  MGR,
5  7566, (SELECT Ename
6         FROM Emp
7         WHERE Empno = 7566),
8  7698, (SELECT Ename
9         FROM Emp
10        WHERE Empno = 7698),
11  7782, (SELECT Ename
12         FROM Emp
13         WHERE Empno = 7782),
14  7788, (SELECT Ename
15         FROM Emp
```

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```
16          WHERE Empno = 7788),
17 7839, (SELECT Ename
18        FROM Emp
19        WHERE Empno = 7839),
20 7902, (SELECT Ename
21        FROM Emp
22        WHERE Empno = 7902),
23 'Do Not Know') Manager,
24 DECODE
25 (
26  Job,
27  'CLERK', 'E',
28  'SALESMAN', 'D',
29  'ANALYST', 'C',
30  'MANAGER', 'B',
31  'PRESIDENT', 'A',
32  'O'
33 ) Grades,
34 Deptno,
35 DECODE
36 (
37  Deptno,
38  10, 'ACCOUNTING',
39  20, 'RESEARCH',
40  30, 'SALES',
41  40, 'OPERATIONS',
42  'OTHER'
43 ) Departments,
44 Sal,
45 Grade
46 FROM EMP E, Salgrade S
47 WHERE Sal BETWEEN LoSal AND HiSal
48 ORDER BY JOB;
```

ENAME	JOB	MANAGER	GRADES	DEPTNO	DEPARTMENT	SAL
GRADE						
SCOTT	ANALYST	JONES	C	20	RESEARCH	3000
FORD	ANALYST	JONES	C	20	RESEARCH	3000
JAMES	CLERK	BLAKE	E	30	SALES	950
ADAMS	CLERK	SCOTT	E	20	RESEARCH	1100

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```

MILLER      CLERK      CLARK      E      10 ACCOUNTING      1300
2
SMITH       CLERK      FORD      E      20 RESEARCH      800
1
CLARK       MANAGER    KING      B      10 ACCOUNTING      2450
4
BLAKE       MANAGER    KING      B      30 SALES      2850
4
JONES       MANAGER    KING      B      20 RESEARCH      2975
4
KING        PRESIDENT  Do Not Know A      10 ACCOUNTING      5000
5
ALLEN       SALESMAN   BLAKE     D      30 SALES      1600
3
MARTIN      SALESMAN   BLAKE     D      30 SALES      1250
2
WARD        SALESMAN   BLAKE     D      30 SALES      1250
2
TURNER      SALESMAN   BLAKE     D      30 SALES      1500
3
  
```

14 rows selected.

Execution Plan

Plan hash value: 2337213613

Id	Operation	Name	Rows
Bytes	Cost (%CPU)	Time	
0	SELECT STATEMENT		1
91	9 (34) 00:00:01		
1	TABLE ACCESS BY INDEX ROWID	EMP	1
20	1 (0) 00:00:01		
*	2 INDEX UNIQUE SCAN	EMP_PRIMARY_KEY	1
1	(0) 00:00:01		
3	TABLE ACCESS BY INDEX ROWID	EMP	1
20	1 (0) 00:00:01		
*	4 INDEX UNIQUE SCAN	EMP_PRIMARY_KEY	1
1	(0) 00:00:01		
5	TABLE ACCESS BY INDEX ROWID	EMP	1
20	1 (0) 00:00:01		

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```

|* 6 |      INDEX UNIQUE SCAN          | EMP_PRIMARY_KEY |      1 |
|    1 |      (0)| 00:00:01 |
|    7 |      TABLE ACCESS BY INDEX ROWID | EMP              |      1 |
20 |    1 |      (0)| 00:00:01 |
|* 8 |      INDEX UNIQUE SCAN          | EMP_PRIMARY_KEY |      1 |
|    1 |      (0)| 00:00:01 |
|    9 |      TABLE ACCESS BY INDEX ROWID | EMP              |      1 |
20 |    1 |      (0)| 00:00:01 |
|* 10 |     INDEX UNIQUE SCAN          | EMP_PRIMARY_KEY |      1 |
|    1 |      (0)| 00:00:01 |
|   11 |     TABLE ACCESS BY INDEX ROWID | EMP              |      1 |
20 |    1 |      (0)| 00:00:01 |
|* 12 |     INDEX UNIQUE SCAN          | EMP_PRIMARY_KEY |      1 |
|    1 |      (0)| 00:00:01 |
|   13 |     SORT ORDER BY              |                  |      1 |
91 |    9 |    (34)| 00:00:01 |
|   14 |     MERGE JOIN                  |                  |      1 |
91 |    8 |    (25)| 00:00:01 |
|   15 |     SORT JOIN                   |                  |      5 |
195 |    4 |    (25)| 00:00:01 |
|   16 |     TABLE ACCESS FULL         | SALGRADE         |      5 |
195 |    3 |      (0)| 00:00:01 |
|* 17 |     FILTER                      |                  |      |
|    |     |          |
|* 18 |     SORT JOIN                   |                  |     14 |
728 |    4 |    (25)| 00:00:01 |
|   19 |     TABLE ACCESS FULL         | EMP              |     14 |
728 |    3 |      (0)| 00:00:01 |

```

Predicate Information (identified by operation id):

```

2 - access("EMPNO"=7566)
4 - access("EMPNO"=7698)
6 - access("EMPNO"=7782)
8 - access("EMPNO"=7788)
10 - access("EMPNO"=7839)
12 - access("EMPNO"=7902)
17 - filter("SAL"<="HISAL")
18 - access("SAL">="LOSAL")
    filter("SAL">="LOSAL")

```

Note

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- dynamic sampling used for this statement

```
SQL> SET AUTOTRACE OFF EXPLAIN
```

```
SQL> cl scr
```

```
SQL> SELECT
  2  TO_CHAR(HireDate, 'YYYY') Year,
  3  COUNT(*) Staff
  4  FROM Emp
  5  GROUP BY ROLLUP (TO_CHAR(HireDate, 'YYYY'));
```

YEAR	STAFF
1980	1
1981	10
1982	2
1983	1
	14

```
SQL> SELECT
  2  SUM
  3  (
  4  DECODE
  5  (
  6    TO_CHAR(HireDate, 'YYYY'),
  7    1980, 1, 0
  8  )
  9  ) "1980" ,
 10  SUM
 11  (
 12  DECODE
 13  (
 14    TO_CHAR(HireDate, 'YYYY'),
 15    1981, 1, 0
 16  )
 17  ) "1981" ,
 18  SUM
 19  (
 20  DECODE
 21  (
 22    TO_CHAR(HireDate, 'YYYY'),
 23    1982, 1, 0
 24  )
 25  ) "1982" ,
 26  SUM
 27  (
```

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```
28  DECODE
29      (
30      TO_CHAR(HireDate, 'YYYY'),
31      1983, 1, 0
32      )
33  ) "1983",
34  COUNT(*) Total
35  FROM Emp;
```

1980	1981	1982	1983	TOTAL
1	10	2	1	14

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT
2  SUM
3  (
4  DECODE
5      (
6      TO_CHAR(HireDate, 'YYYY'),
7      1980, 1, NULL
8      )
9  ) "1980" ,
10 SUM
11 (
12 DECODE
13     (
14     TO_CHAR(HireDate, 'YYYY'),
15     1981, 1, NULL
16     )
17 ) "1981" ,
18 SUM
19 (
20 DECODE
21     (
22     TO_CHAR(HireDate, 'YYYY'),
23     1982, 1, NULL
24     )
25 ) "1982" ,
26 SUM
27 (
28 DECODE
29     (
30     TO_CHAR(HireDate, 'YYYY'),
```

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```
31      1983, 1, NULL
32    )
33  ) "1983",
34  COUNT(*) Total
35* FROM Emp
SQL> /
```

1980	1981	1982	1983	TOTAL
1	10	2	1	14

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT
2    COUNT
3    (
4    DECODE
5      (
6        TO_CHAR(HireDate, 'YYYY'),
7        1980, 1, NULL
8      )
9    ) "1980" ,
10  COUNT
11  (
12  DECODE
13    (
14      TO_CHAR(HireDate, 'YYYY'),
15      1981, 1, NULL
16    )
17  ) "1981" ,
18  COUNT
19  (
20  DECODE
21    (
22      TO_CHAR(HireDate, 'YYYY'),
23      1982, 1, NULL
24    )
25  ) "1982" ,
26  COUNT
27  (
28  DECODE
29    (
30      TO_CHAR(HireDate, 'YYYY'),
31      1983, 1, NULL
32    )
```

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```
33 ) "1983",
34 COUNT(*) Total
35* FROM Emp
SQL> /
```

1980	1981	1982	1983	TOTAL
1	10	2	1	14

```
SQL> ED
Wrote file afiedt.buf
```

```
1 SELECT
2   COUNT
3   (
4   DECODE
5     (
6       TO_CHAR(HireDate, 'YYYY'),
7       1980, 1, 0
8     )
9   ) "1980" ,
10  COUNT
11  (
12  DECODE
13    (
14      TO_CHAR(HireDate, 'YYYY'),
15      1981, 1, 0
16    )
17  ) "1981" ,
18  COUNT
19  (
20  DECODE
21    (
22      TO_CHAR(HireDate, 'YYYY'),
23      1982, 1, 0
24    )
25  ) "1982" ,
26  COUNT
27  (
28  DECODE
29    (
30      TO_CHAR(HireDate, 'YYYY'),
31      1983, 1, 0
32    )
33  ) "1983",
34  COUNT(*) Total
```

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```
35* FROM Emp
SQL> /
```

1980	1981	1982	1983	TOTAL
14	14	14	14	14

```
SQL> cl scr
```

```
SQL> SELECT
  2  Ename,
  3  Job,
  4  Sal,
  5  DECODE
  6  (
  7  Job,
  8  'ANALYST', Sal * 1.1,
  9  'CLERK', Sal * 1.15,
 10  'MANAGER', Sal * 1.2,
 11  Sal
 12  ) REVSAL
 13  FROM Emp;
```

ENAME	JOB	SAL	REVSAL
KING	PRESIDENT	5000	5000
BLAKE	MANAGER	2850	3420
CLARK	MANAGER	2450	2940
JONES	MANAGER	2975	3570
MARTIN	SALESMAN	1250	1250
ALLEN	SALESMAN	1600	1600
TURNER	SALESMAN	1500	1500
JAMES	CLERK	950	1092.5
WARD	SALESMAN	1250	1250
FORD	ANALYST	3000	3300
SMITH	CLERK	800	920
SCOTT	ANALYST	3000	3300
ADAMS	CLERK	1100	1265
MILLER	CLERK	1300	1495

```
14 rows selected.
```

```
SQL> SELECT
  2  Ename,
  3  Job,
  4  Sal,
```

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```
5  DECODE
6  (
7    Job,
8    'ANALYST', Sal * 1.1,
9    'CLERK', Sal * 1.15,
10   'MANAGER', Sal * 1.2,
11   Sal
12  ) REVSAL,
13 DECODE
14 (
15   Job,
16   'ANALYST', 'Revised',
17   'CLERK', 'Revised',
18   'MANAGER', 'Revised',
19   'Sorry!'
20  ) Status
21  FROM Emp;
```

ENAME	JOB	SAL	REVSAL	STATUS
KING	PRESIDENT	5000	5000	Sorry!
BLAKE	MANAGER	2850	3420	Revised
CLARK	MANAGER	2450	2940	Revised
JONES	MANAGER	2975	3570	Revised
MARTIN	SALESMAN	1250	1250	Sorry!
ALLEN	SALESMAN	1600	1600	Sorry!
TURNER	SALESMAN	1500	1500	Sorry!
JAMES	CLERK	950	1092.5	Revised
WARD	SALESMAN	1250	1250	Sorry!
FORD	ANALYST	3000	3300	Revised
SMITH	CLERK	800	920	Revised
SCOTT	ANALYST	3000	3300	Revised
ADAMS	CLERK	1100	1265	Revised
MILLER	CLERK	1300	1495	Revised

14 rows selected.

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT
2  Ename,
3  Job,
4  Sal,
5  DECODE
6  (
```

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```
7 Job,
8 'ANALYST', TO_CHAR((Sal * 1.1), '99G999D99')||' Revised.',
9 'CLERK', TO_CHAR((Sal * 1.15), '99G999D99')||' Revised.',
10 'MANAGER', TO_CHAR((Sal * 1.2), '99G999D99')||' Revised.',
11 TO_CHAR(Sal, '99G999D99')||' Sorry!'
12 ) REVSAL01
13* FROM Emp
SQL> COL REVSAL01 FORMAT A25
SQL> R
1 SELECT
2 Ename,
3 Job,
4 Sal,
5 DECODE
6 (
7 Job,
8 'ANALYST', TO_CHAR((Sal * 1.1), '99G999D99')||' Revised.',
9 'CLERK', TO_CHAR((Sal * 1.15), '99G999D99')||' Revised.',
10 'MANAGER', TO_CHAR((Sal * 1.2), '99G999D99')||' Revised.',
11 TO_CHAR(Sal, '99G999D99')||' Sorry!'
12 ) REVSAL01
13* FROM Emp
```

ENAME	JOB	SAL	REVSAL01
KING	PRESIDENT	5000	5,000.00 Sorry!
BLAKE	MANAGER	2850	3,420.00 Revised.
CLARK	MANAGER	2450	2,940.00 Revised.
JONES	MANAGER	2975	3,570.00 Revised.
MARTIN	SALESMAN	1250	1,250.00 Sorry!
ALLEN	SALESMAN	1600	1,600.00 Sorry!
TURNER	SALESMAN	1500	1,500.00 Sorry!
JAMES	CLERK	950	1,092.50 Revised.
WARD	SALESMAN	1250	1,250.00 Sorry!
FORD	ANALYST	3000	3,300.00 Revised.
SMITH	CLERK	800	920.00 Revised.
SCOTT	ANALYST	3000	3,300.00 Revised.
ADAMS	CLERK	1100	1,265.00 Revised.
MILLER	CLERK	1300	1,495.00 Revised.

14 rows selected.

```
SQL> cl scr
```

```
SQL> SELECT
2 Ename,
```

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```
3 Job,
4 Sal,
5 DECODE
6 (
7 Job,
8 'ANALYST', Sal * 1.1,
9 'CLERK', Sal * 1.15,
10 'MANAGER', Sal * 1.2,
11 Sal
12 ) REVSAL,
13 DECODE
14 (
15 Job,
16 'ANALYST', Sal * 1.1,
17 'CLERK', Sal * 1.15,
18 'MANAGER', Sal * 1.2,
19 Sal
20 ) - Sal "Extra Amount",
21 DECODE
22 (
23 Job, 'ANALYST', 'Revised',
24 'CLERK', 'Revised',
25 'MANAGER', 'Revised',
26 'Sorry!'
27 ) "Status"
28 FROM Emp;
```

ENAME	JOB	SAL	REVSAL	Extra Amount	Status
KING	PRESIDENT	5000	5000	0	Sorry!
BLAKE	MANAGER	2850	3420	570	Revised
CLARK	MANAGER	2450	2940	490	Revised
JONES	MANAGER	2975	3570	595	Revised
MARTIN	SALESMAN	1250	1250	0	Sorry!
ALLEN	SALESMAN	1600	1600	0	Sorry!
TURNER	SALESMAN	1500	1500	0	Sorry!
JAMES	CLERK	950	1092.5	142.5	Revised
WARD	SALESMAN	1250	1250	0	Sorry!
FORD	ANALYST	3000	3300	300	Revised
SMITH	CLERK	800	920	120	Revised
SCOTT	ANALYST	3000	3300	300	Revised
ADAMS	CLERK	1100	1265	165	Revised
MILLER	CLERK	1300	1495	195	Revised

14 rows selected.

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```
SQL> SELECT
  2  COUNT
  3  (
  4    DECODE
  5      (
  6        Deptno,
  7        10, '*', NULL
  8      )
  9    ) D10_COUNT,
10  SUM
11  (
12    DECODE
13      (
14        Deptno,
15        10, Sal, NULL
16      )
17    ) D10_Sal,
18  COUNT
19  (
20    DECODE
21      (
22        Deptno,
23        20, '*', NULL
24      )
25    ) D20_COUNT,
26  SUM
27  (
28    DECODE
29      (
30        Deptno,
31        20, Sal, NULL
32      )
33    ) D20_Sal,
34  COUNT
35  (
36    DECODE
37      (
38        Deptno,
39        30, '*', NULL
40      )
41    ) D30_COUNT,
42  SUM
43  (
44    DECODE
45      (
46        Deptno,
```

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```
47          30, Sal, NULL
48      )
49  ) D30_Sal
50  FROM Emp;
```

D10_COUNT	D10_SAL	D20_COUNT	D20_SAL	D30_COUNT	D30_SAL
3	8750	5	10875	6	9400

```
SQL> COLUMN D10_COUNT FORMAT 99
SQL> COLUMN D10_SAL FORMAT 99999
SQL> COLUMN D20_COUNT FORMAT 99
SQL> COLUMN D20_SAL FORMAT 99999
SQL> COLUMN D30_COUNT FORMAT 99
SQL> COLUMN D30_SAL FORMAT 99999
SQL> COLUMN EMP_COUNT FORMAT 99
SQL> COLUMN SALSUM FORMAT 99999
SQL> SELECT
```

```
2  COUNT
3  (
4  DECODE
5      (
6      Deptno,
7      10, '*', NULL
8      )
9  ) D10_COUNT,
10 SUM
11 (
12 DECODE
13     (
14     Deptno,
15     10, Sal, NULL
16     )
17 ) D10_Sal,
18 COUNT
19 (
20 DECODE
21     (
22     Deptno,
23     20, '*', NULL
24     )
25 ) D20_COUNT,
26 SUM
27 (
28 DECODE
29     (
```

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```
30      Deptno,
31      20, Sal, NULL
32    )
33  ) D20_Sal,
34  COUNT
35  (
36    DECODE
37    (
38      Deptno,
39      30, '*', NULL
40    )
41  ) D30_COUNT,
42  SUM
43  (
44    DECODE
45    (
46      Deptno,
47      30, Sal, NULL
48    )
49  ) D30_Sal,
50  COUNT(*) EmpCount,
51  SUM(Sal) SalSum
52  FROM Emp;
```

D10_COUNT	D10_SAL	D20_COUNT	D20_SAL	D30_COUNT	D30_SAL	EMPCOUNT	SALSUM
3	8750	5	10875	6	9400	14	29025

```
SQL> SELECT DEptno, COUNT(*) Staff, SUM(Sal) SalSum
2  FROM Emp
3  GROUP BY ROLLUP(Deptno);
```

DEPTNO	STAFF	SALSUM
10	3	8750
20	5	10875
30	6	9400
	14	29025

```
SQL> cl scr
```

```
SQL> SELECT
2  Job,
3  SUM
4  (
5  DECODE
```

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```
6      (
7      Deptno,
8      10, Sal
9      )
10 ) "Deptno 10",
11 SUM
12 (
13 DECODE
14 (
15     Deptno,
16     20, Sal
17 )
18 ) "Deptno 20",
19 SUM
20 (
21 DECODE
22 (
23     Deptno,
24     30, Sal
25 )
26 ) "Deptno 30",
27 SUM(Sal) "Total"
28 FROM Emp
29 GROUP BY Job;
```

JOB	Deptno 10	Deptno 20	Deptno 30	Total
SALESMAN			5600	5600
CLERK	1300	1900	950	4150
PRESIDENT	5000			5000
MANAGER	2450	2975	2850	8275
ANALYST		6000		6000

```
SQL> SELECT Deptno, Job, SUM(Sal)
2 FROM Emp
3 GROUP BY Deptno, ROLLUP (Job);
```

DEPTNO	JOB	SUM(SAL)
10	CLERK	1300
10	MANAGER	2450
10	PRESIDENT	5000
10		8750
20	CLERK	1900
20	ANALYST	6000
20	MANAGER	2975

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```
20          10875
30 CLERK          950
30 MANAGER       2850
30 SALESMAN      5600
30              9400
```

12 rows selected.

SQL> cl scr

```
SQL> SELECT
  2  Job,
  3  SUM
  4  (
  5    DECODE
  6      (
  7        Deptno,
  8        10, Sal
  9      )
 10  ) "Deptno 10",
 11  SUM
 12  (
 13    DECODE
 14      (
 15        Deptno,
 16        20, Sal
 17      )
 18  ) "Deptno 20",
 19  SUM
 20  (
 21    DECODE
 22      (
 23        Deptno,
 24        30, Sal
 25      )
 26  ) "Deptno 30",
 27  SUM(Sal) "Total"
 28  FROM Emp
 29  GROUP BY ROLLUP (Job);
```

JOB	Deptno 10	Deptno 20	Deptno 30	Total
ANALYST		6000		6000
CLERK	1300	1900	950	4150
MANAGER	2450	2975	2850	8275
PRESIDENT	5000			5000

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SALESMAN			5600	5600
	8750	10875	9400	29025

6 rows selected.

```
SQL> SELECT
  2  Deptno,
  3  SUM
  4  (
  5    DECODE
  6      (
  7        Job,
  8        'PRESIDENT', Sal
  9      )
 10  ) "President",
 11  SUM
 12  (
 13    DECODE
 14      (
 15        Job,
 16        'ANALYST', Sal
 17      )
 18  ) "Analyst",
 19  SUM
 20  (
 21    DECODE
 22      (
 23        Job,
 24        'MANAGER', Sal
 25      )
 26  ) "Manager",
 27  SUM
 28  (
 29    DECODE
 30      (
 31        Job,
 32        'CLERK', Sal
 33      )
 34  ) "Clerk",
 35  SUM
 36  (
 37    DECODE
 38      (
 39        Job,
 40        'SALESMAN', Sal
 41      )
```

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```
42 ) "Salesman",
43 SUM(Sal) "Total"
44 FROM Emp
45 GROUP BY Deptno;
```

DEPTNO	President	Analyst	Manager	Clerk	Salesman	Total
30			2850	950	5600	9400
20		6000	2975	1900		10875
10	5000		2450	1300		8750

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT
2  Deptno,
3  SUM
4  (
5  DECODE
6  (
7  Job,
8  'PRESIDENT', Sal
9  )
10 ) "President",
11 SUM
12 (
13 DECODE
14 (
15 Job,
16 'ANALYST', Sal
17 )
18 ) "Analyst",
19 SUM
20 (
21 DECODE
22 (
23 Job,
24 'MANAGER', Sal
25 )
26 ) "Manager",
27 SUM
28 (
29 DECODE
30 (
31 Job,
32 'CLERK', Sal
```

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```
33      )
34    ) "Clerk",
35    SUM
36    (
37      DECODE
38      (
39        Job,
40        'SALESMAN', Sal
41      )
42    ) "Salesman",
43    SUM(Sal) "Total"
44  FROM Emp
45* GROUP BY ROLLUP (Deptno)
SQL> /
```

DEPTNO	President	Analyst	Manager	Clerk	Salesman	Total
10	5000		2450	1300		8750
20		6000	2975	1900		10875
30			2850	950	5600	9400
	5000	6000	8275	4150	5600	29025

SQL> cl scr

```
SQL> COLUMN President FORMAT A9
SQL> COLUMN Analyst FORMAT A9
SQL> COLUMN Manager FORMAT A9
SQL> COLUMN Clerk FORMAT A9
SQL> COLUMN Salesman FORMAT A9
SQL> SELECT
  2 Deptno,
  3 NVL
  4 (
  5   TO_CHAR
  6   (
  7     SUM
  8     (
  9       DECODE
 10      (
 11        Job,
 12        'PRESIDENT', Sal
 13      )
 14    )
 15  ), 'N.A'
 16 ) "President",
 17 NVL
```

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```
18  (
19  TO_CHAR
20      (
21      SUM
22          (
23          DECODE
24              (
25              Job,
26              'ANALYST', Sal
27              )
28          )
29      ), 'N.A'
30  ) "Analyst",
31  NVL
32      (
33      TO_CHAR
34          (
35          SUM
36              (
37              DECODE
38                  (
39                  Job,
40                  'MANAGER', Sal
41                  )
42              )
43          ), 'N.A'
44      ) "Manager",
45  NVL
46      (
47      TO_CHAR
48          (
49          SUM
50              (
51              DECODE
52                  (
53                  Job,
54                  'CLERK', Sal
55                  )
56              )
57          ), 'N.A'
58      ) "Clerk",
59  NVL
60      (
61      TO_CHAR
62          (
63      SUM
```

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```
64      (
65      DECODE
66      (
67      Job,
68      'SALESMAN', Sal
69      )
70      )
71      ), 'N.A'
72      ) "Salesman",
73      SUM(Sal) "Total"
74      FROM Emp
75      GROUP BY Deptno;
```

DEPTNO	President	Analyst	Manager	Clerk	Salesman	Total
30	N.A	N.A	2850	950	5600	9400
20	N.A	6000	2975	1900	N.A	10875
10	5000	N.A	2450	1300	N.A	8750

SQL> cl scr

SQL> SET PAGESIZE 200

SQL> BREAK ON Month SKIP 1

SQL> COLUMN Month FORMAT A18

SQL> COLUMN Sun FORMAT A5

SQL> COLUMN Mon FORMAT A5

SQL> COLUMN Tue FORMAT A5

SQL> COLUMN Wed FORMAT A5

SQL> COLUMN Thu FORMAT A5

SQL> COLUMN Fri FORMAT A5

SQL> COLUMN Sat FORMAT A5

```
SQL> SELECT
  2  LPAD(Month, 20 - (20 - LENGTH(Month)) / 2 ) Month,
  3  "Sun",
  4  "Mon",
  5  "Tue",
  6  "Wed",
  7  "Thu",
  8  "Fri",
  9  "Sat"
 10 FROM
 11 (
 12  SELECT
 13  TO_CHAR(DT, 'FMMonth YYYY') Month,
 14  TO_CHAR(DT + 1, 'IW') Week,
```

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```
15  MAX(DECODE (TO_CHAR (DT, 'D'), '1', LPAD (TO_CHAR (DT, 'FMDD'), 2)))
"Sun",
16  MAX(DECODE (TO_CHAR (DT, 'D'), '2', LPAD (TO_CHAR (DT, 'FMDD'), 2)))
"Mon",
17  MAX(DECODE (TO_CHAR (DT, 'D'), '3', LPAD (TO_CHAR (DT, 'FMDD'), 2)))
"Tue",
18  MAX(DECODE (TO_CHAR (DT, 'D'), '4', LPAD (TO_CHAR (DT, 'FMDD'), 2)))
"Wed",
19  MAX(DECODE (TO_CHAR (DT, 'D'), '5', LPAD (TO_CHAR (DT, 'FMDD'), 2)))
"Thu",
20  MAX(DECODE (TO_CHAR (DT, 'D'), '6', LPAD (TO_CHAR (DT, 'FMDD'), 2)))
"Fri",
21  MAX(DECODE (TO_CHAR (DT, 'D'), '7', LPAD (TO_CHAR (DT, 'FMDD'), 2)))
"Sat"
22  FROM
23      (
24          SELECT TRUNC (SYSDATE, 'Y') - 1 + ROWNUM DT
25          FROM ALL_OBJECTS
26          WHERE
27              ROWNUM <= ADD_MONTHS (TRUNC (SYSDATE, 'Year'), 12) -
TRUNC (SYSDATE, 'Year')
28      )
29  GROUP BY TO_CHAR (DT, 'FMMonth YYYY'), TO_CHAR (DT + 1, 'IW')
30  )
31  ORDER BY TO_DATE (MONTH, 'Month YYYY' ), TO_NUMBER (Week)
32  /
```

MONTH	Sun	Mon	Tue	Wed	Thu	Fri	Sat
January 2014				1	2	3	4
	5	6	7	8	9	10	11
	12	13	14	15	16	17	18
	19	20	21	22	23	24	25
	26	27	28	29	30	31	
February 2014							1
	2	3	4	5	6	7	8
	9	10	11	12	13	14	15
	16	17	18	19	20	21	22
	23	24	25	26	27	28	
March 2014							1
	2	3	4	5	6	7	8
	9	10	11	12	13	14	15
	16	17	18	19	20	21	22
	23	24	25	26	27	28	29

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	30	31					
April 2014			1	2	3	4	5
	6	7	8	9	10	11	12
	13	14	15	16	17	18	19
	20	21	22	23	24	25	26
	27	28	29	30			
May 2014					1	2	3
	4	5	6	7	8	9	10
	11	12	13	14	15	16	17
	18	19	20	21	22	23	24
	25	26	27	28	29	30	31
June 2014	1	2	3	4	5	6	7
	8	9	10	11	12	13	14
	15	16	17	18	19	20	21
	22	23	24	25	26	27	28
	29	30					
July 2014			1	2	3	4	5
	6	7	8	9	10	11	12
	13	14	15	16	17	18	19
	20	21	22	23	24	25	26
	27	28	29	30	31		
August 2014						1	2
	3	4	5	6	7	8	9
	10	11	12	13	14	15	16
	17	18	19	20	21	22	23
	24	25	26	27	28	29	30
	31						
September 2014		1	2	3	4	5	6
	7	8	9	10	11	12	13
	14	15	16	17	18	19	20
	21	22	23	24	25	26	27
	28	29	30				
October 2014				1	2	3	4
	5	6	7	8	9	10	11
	12	13	14	15	16	17	18
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November 2014							1

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